



California Energy Commission

Fighting Climate Change Since 1974

Jackalyne Pfannenstiel
Chairman
California Energy Commission

"Navigating the New Carbon World"
Santa Barbara, CA
March 20, 2007



Stern Report



HM TREASURY

- ... the overall costs and risks of climate change...at least 5% of global GDP
...could rise to 20% of GDP or more.
- ... the costs of action.....can be limited to around 1% of global GDP each year.
- ... global emissions will need to be reduced to less than 5 GtCO₂e, **over 80% below current annual emissions**, to maintain stabilization.
- ... next 10-20 years will have a profound effect on the climate.





Executive Order S-3-05

June 1, 2005

CA will reduce
Greenhouse Gases to:

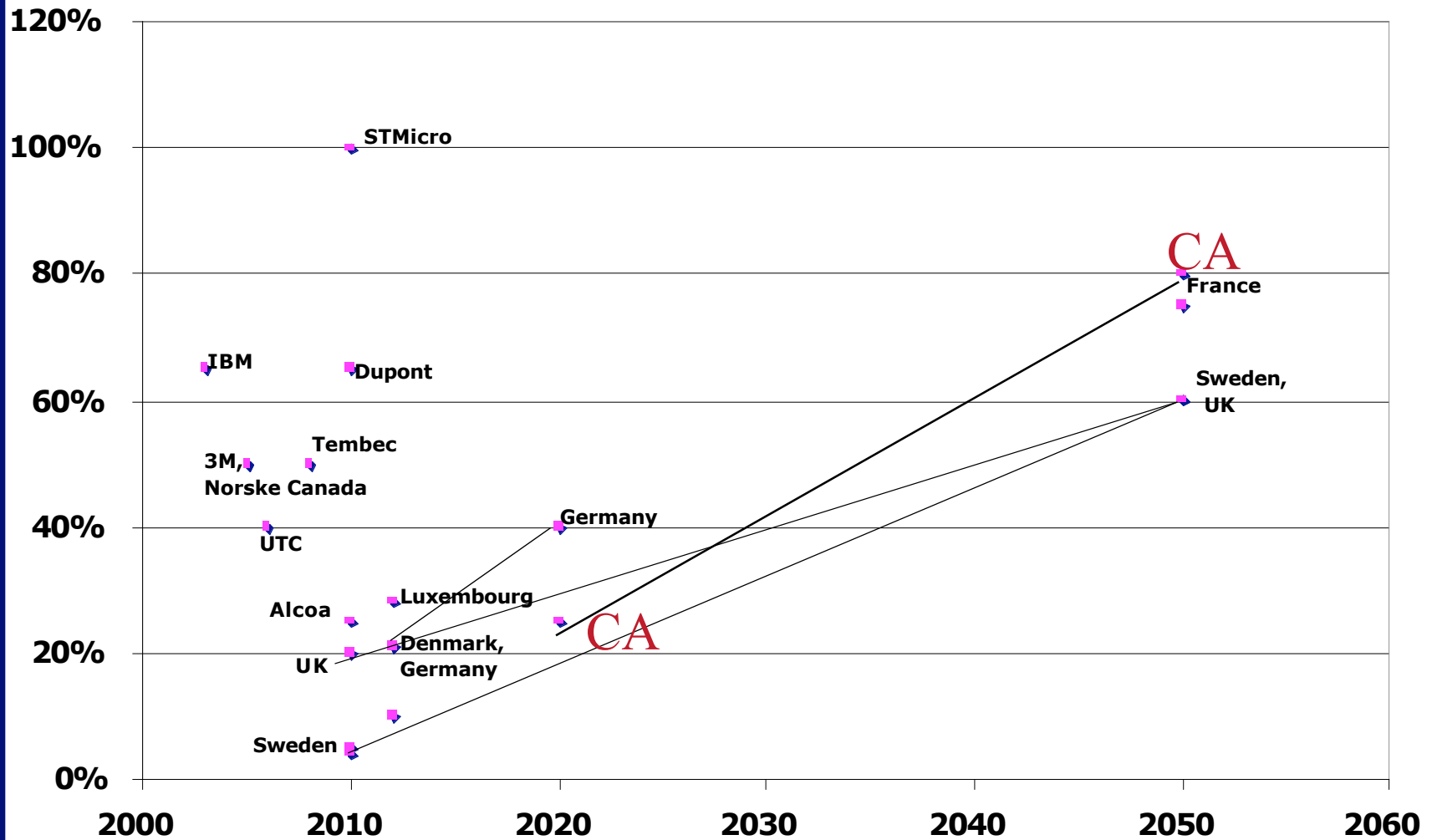
- 2000 levels by 2010
- 1990 levels by 2020
- 80% below 1990
levels by 2050



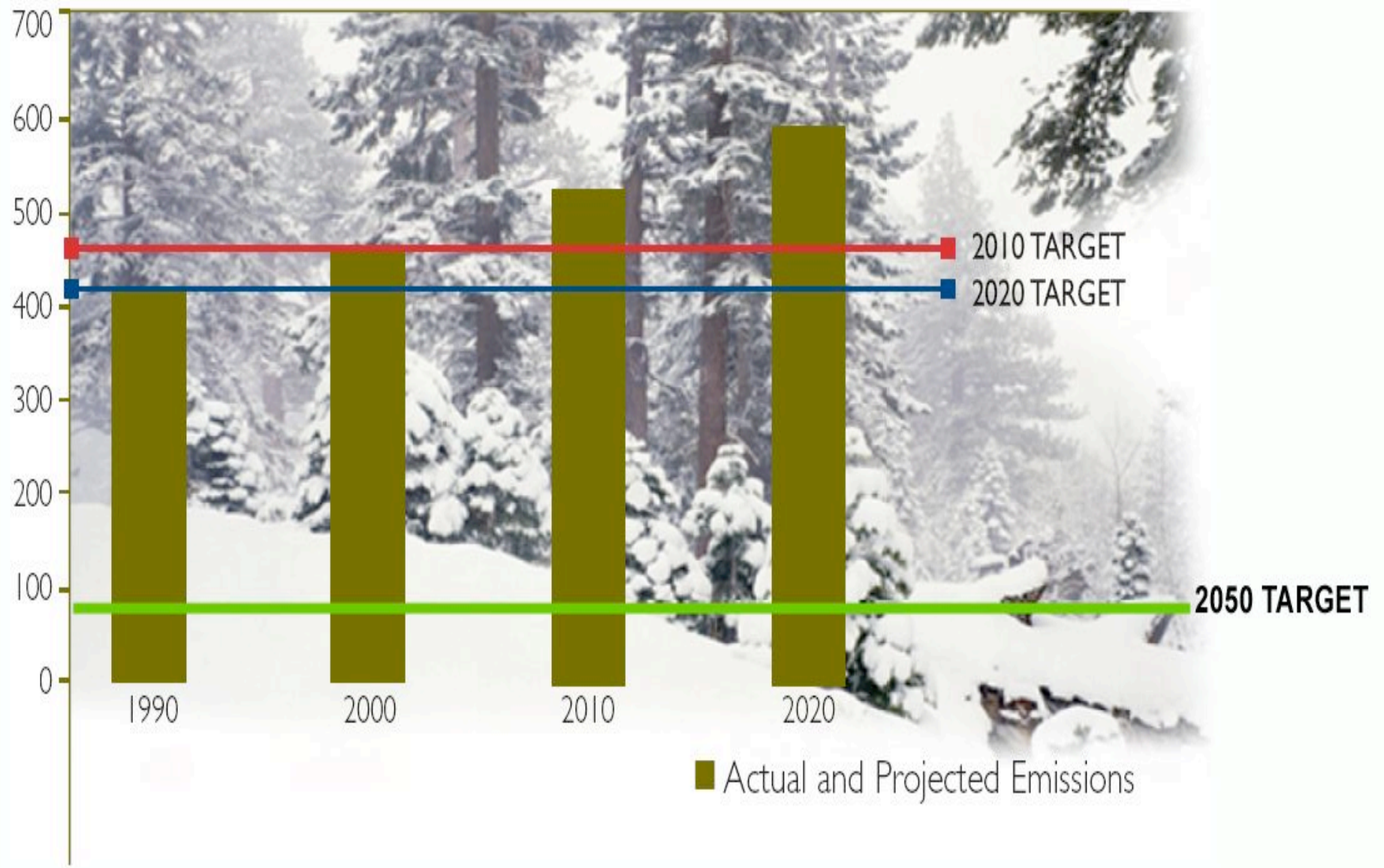


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GHG Reduction Below 1990 Level Goals



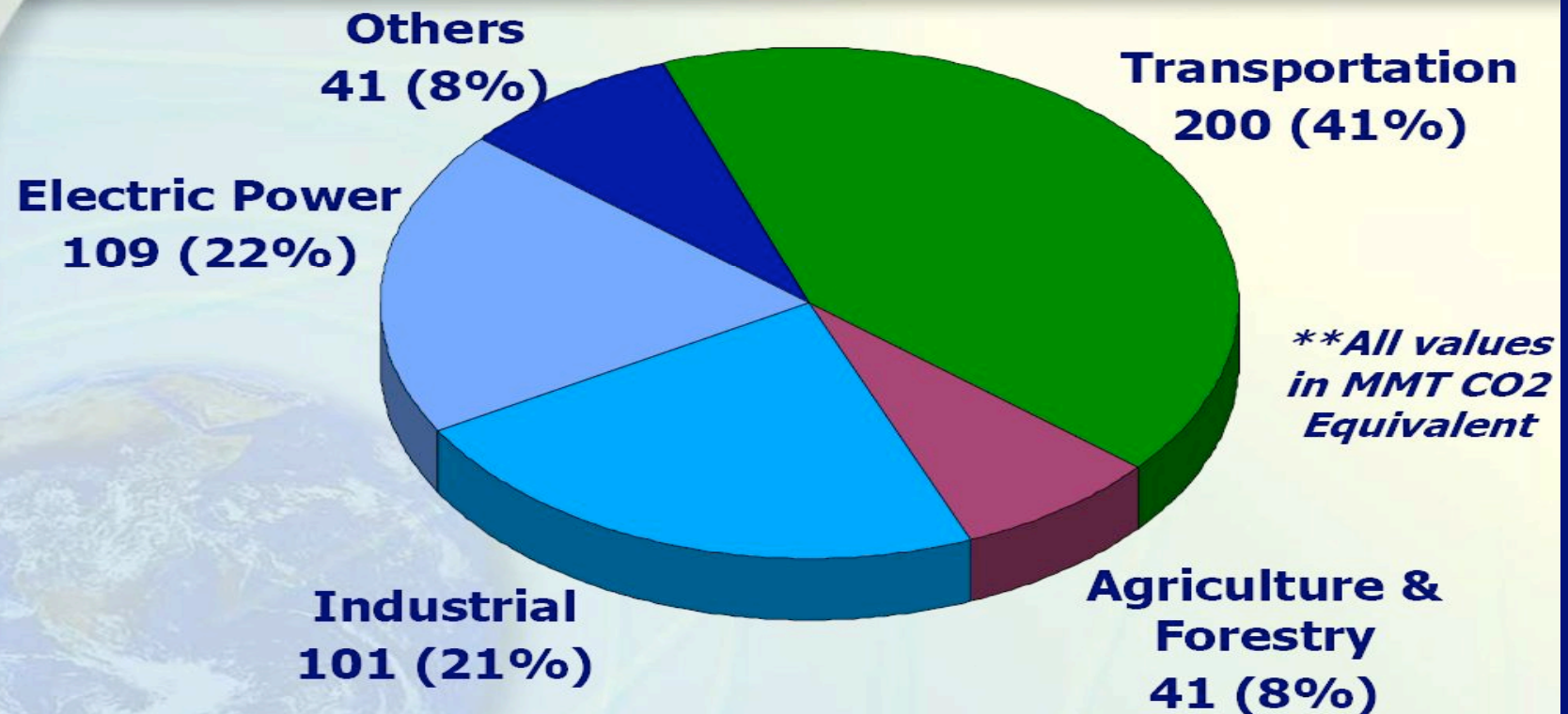
CA Climate Action Team GHG Emissions Reductions Targets





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Sources of California's Climate Change Emissions in 2004

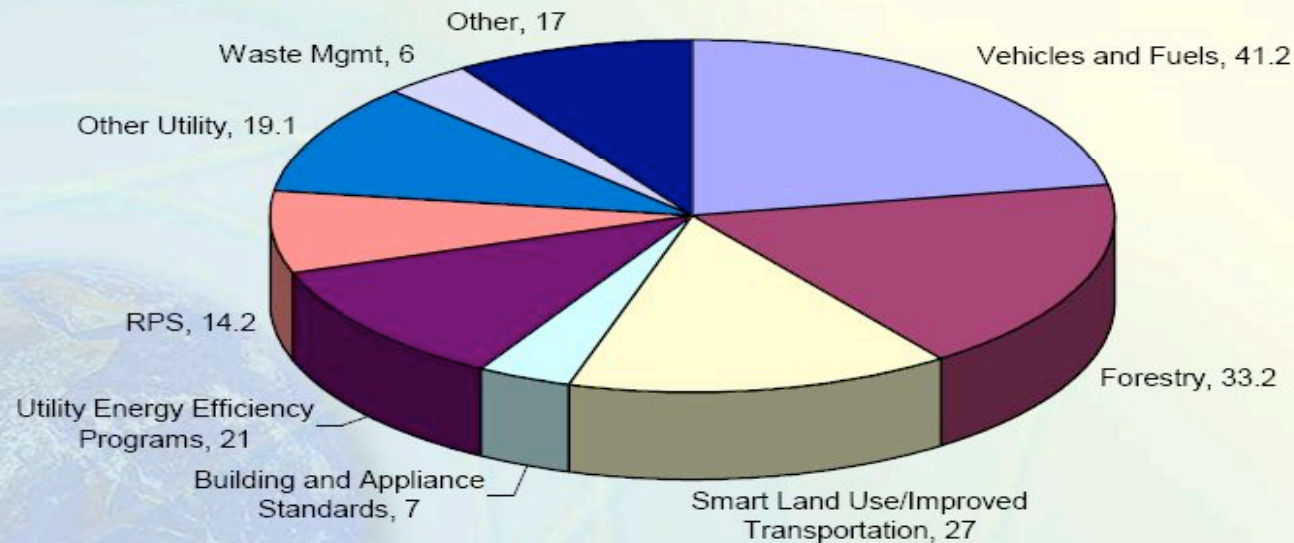


Source: California Energy Commission; Inventory of California Greenhouse Gas Emissions and Sinks: 1990 to 2004



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Sources of Potential Reductions (Million Metric Tons CO₂ Equivalent)

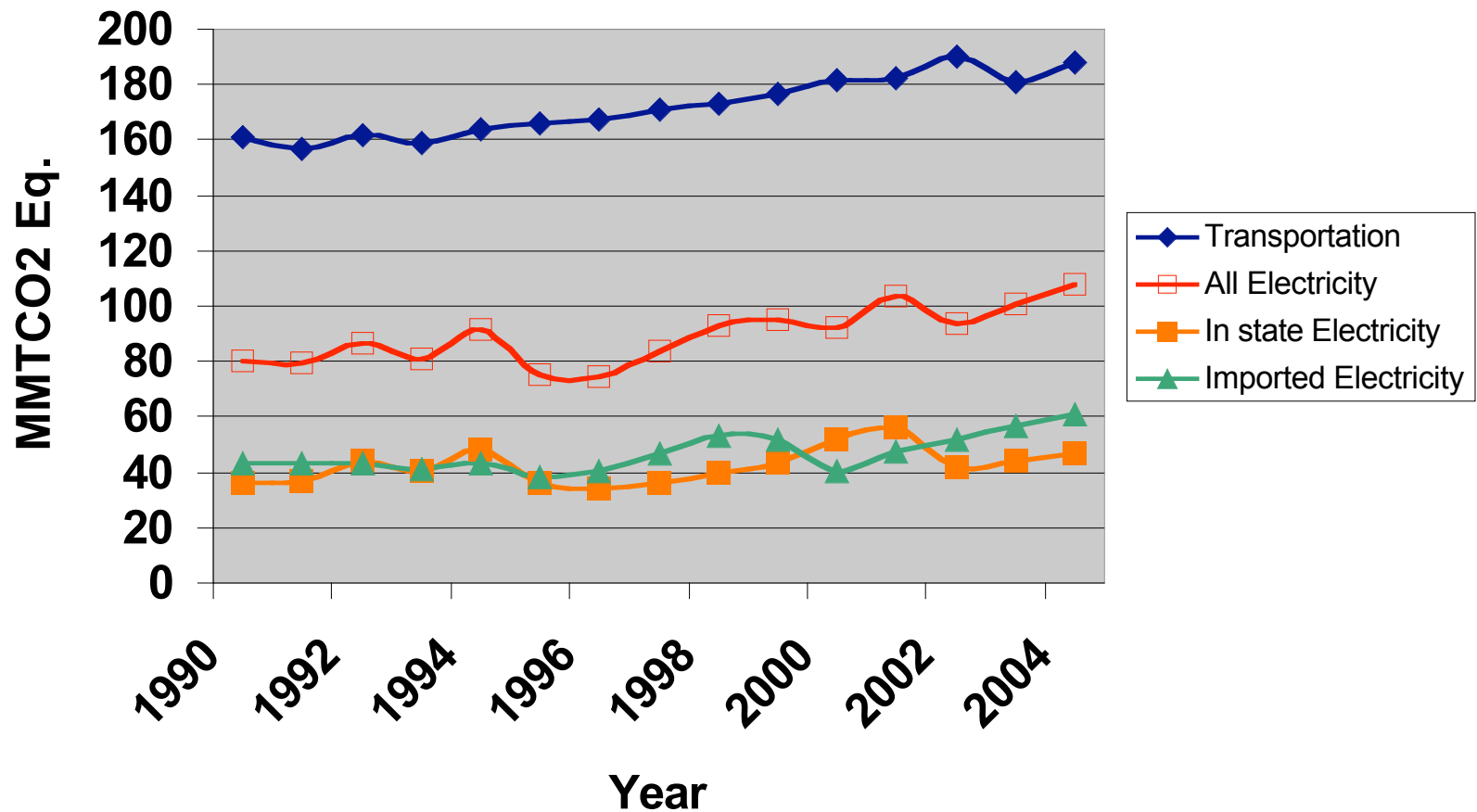


Source: March 2006 Climate Action Team Report



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Transportation and Electricity Sector GHG Emissions





CAT Report Emissions Reduction

Sector	2004 Sector Emissions* MMTCO2	% of CA's 2004 Emissions	2020 Reductions MMTCO2	% of Reductions
Electric Utility	107.9	22%	54.3	29%
Transportation	188	41%	68.2	36%

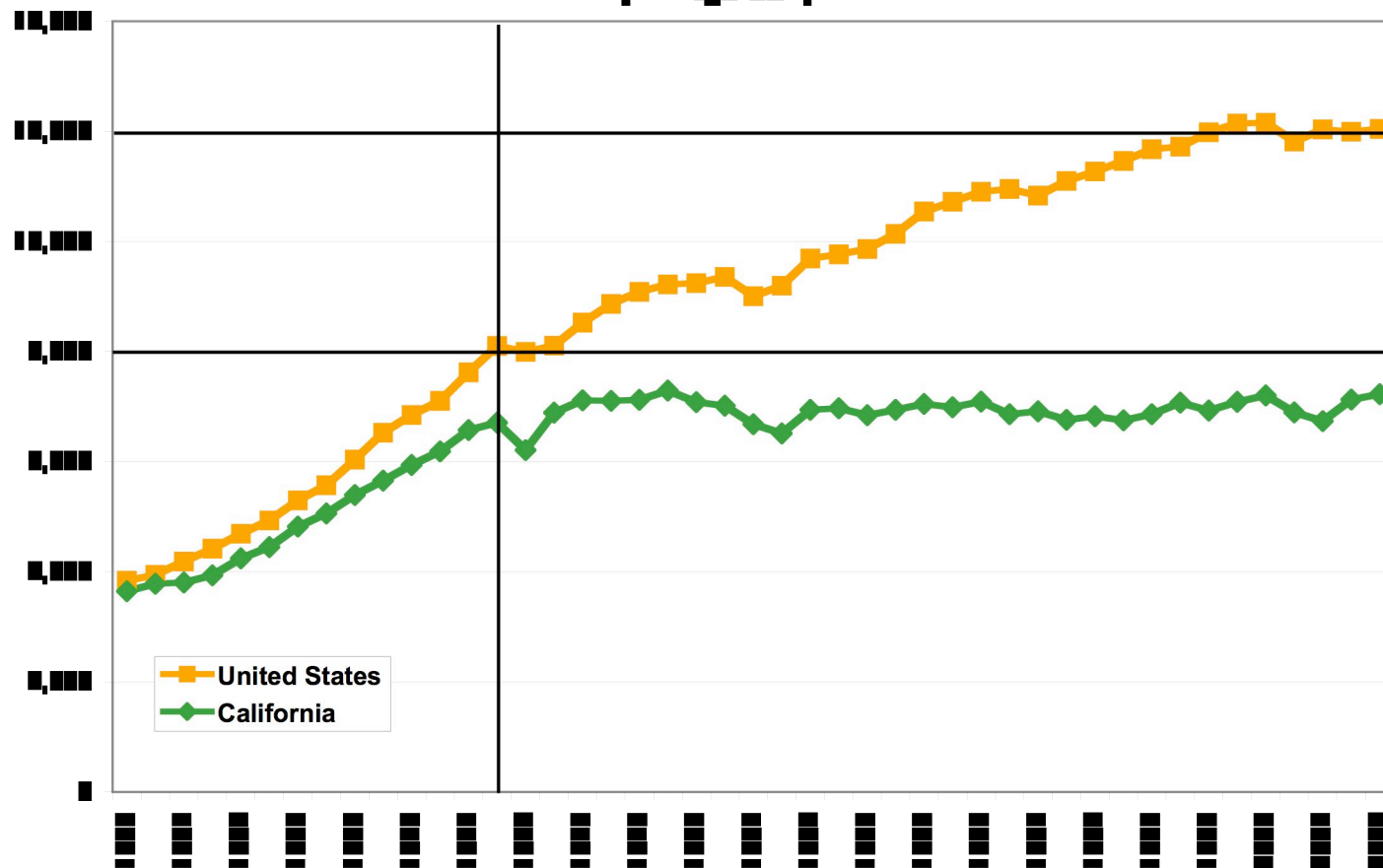
* CEC 2006 Inventory



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Energy Efficiency

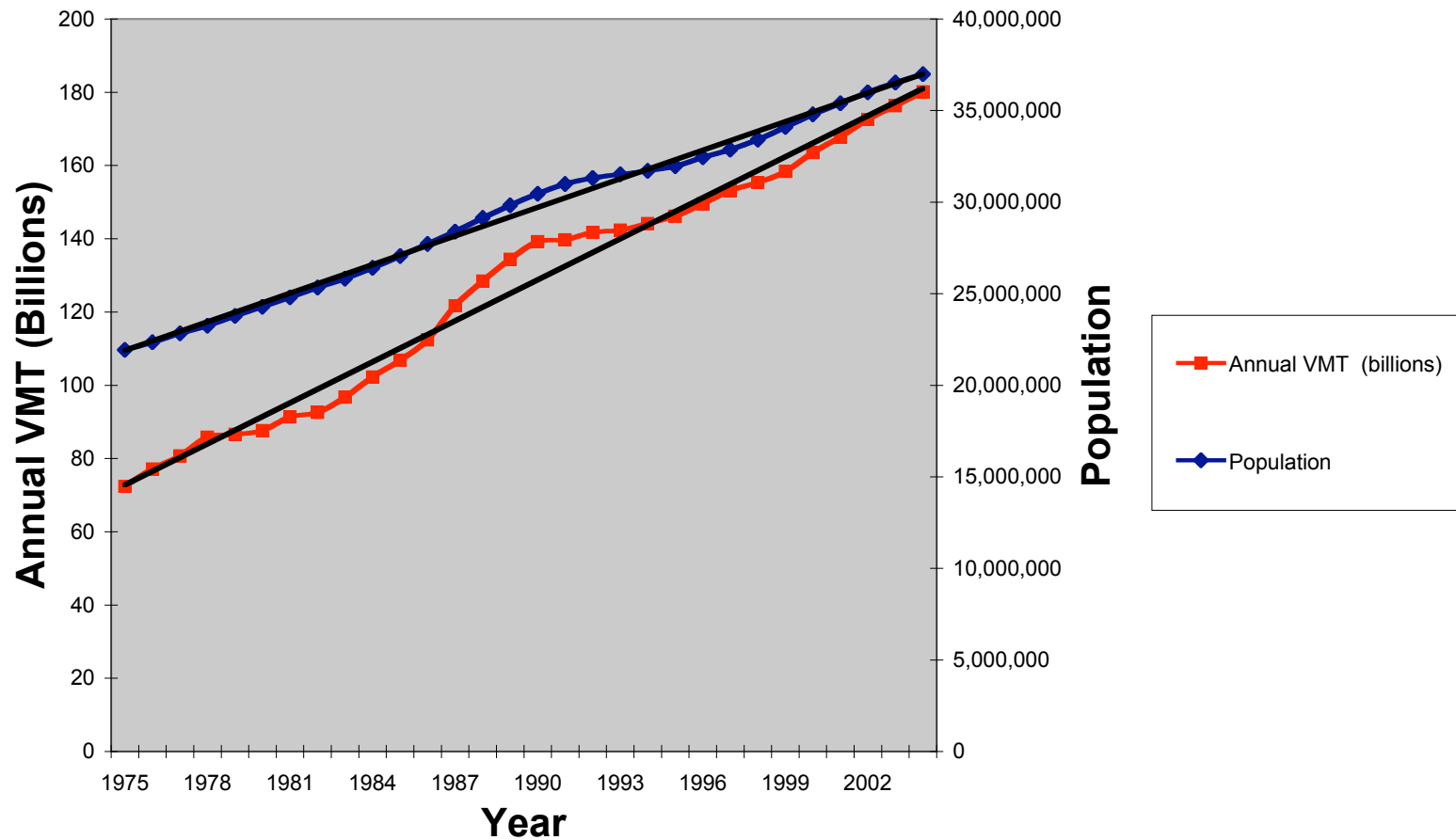
Gas Supply Monthly Sales (not including self-generation)
(Billion cubic feet)





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VTM and Population in CA 1975-2004





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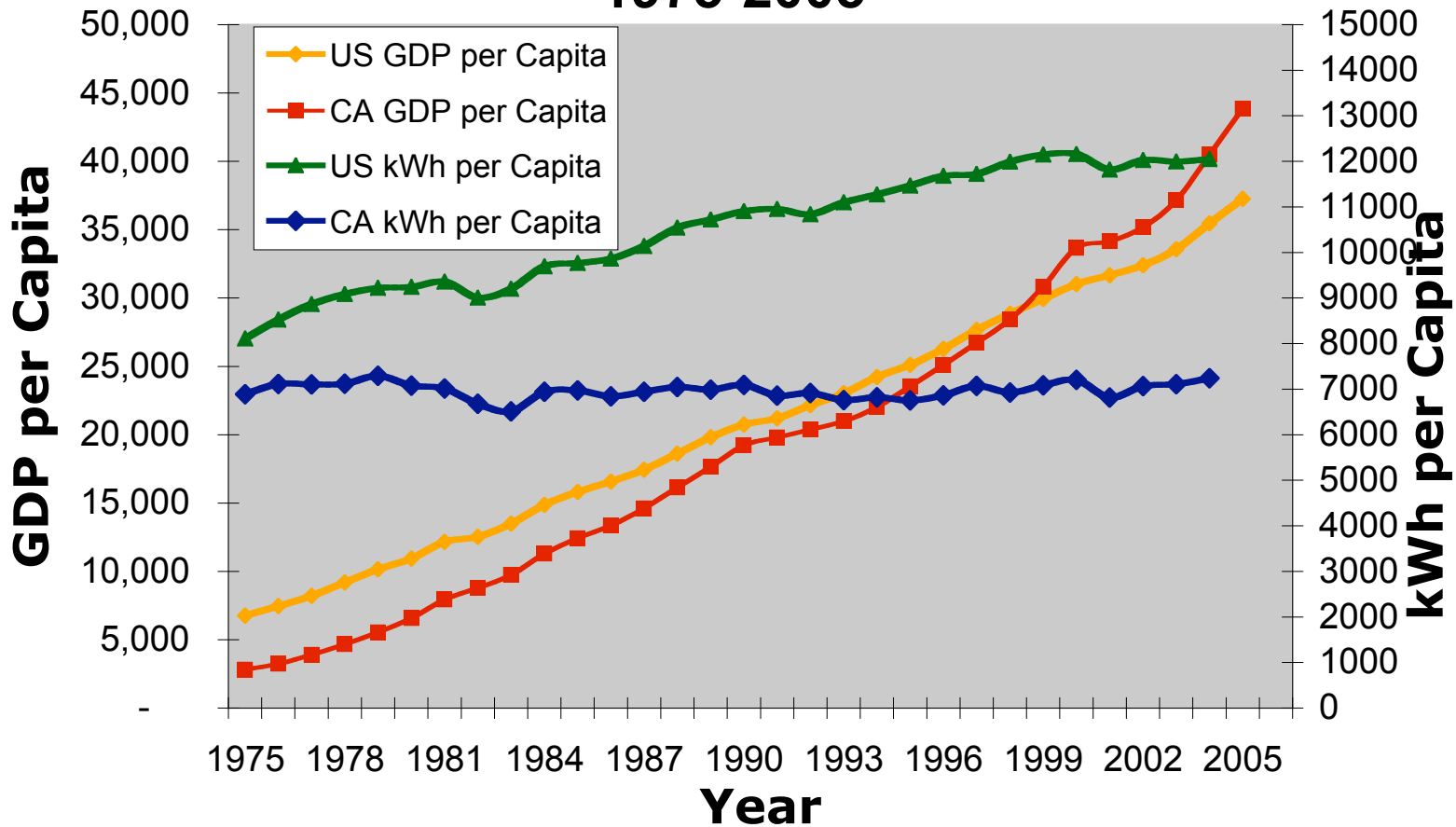
Land Use Recommendations in the Integrated Energy Policy Report 2006 Update

- ... require local governments to develop GHG reduction plans.
- ...develop criteria for smart growth development and prioritize infrastructure funding toward development that meets those criteria.
- ... legislation to require local governments to include an energy element in their general plans.
- Further work with state and local governments to understand energy/GHG consequences of land use decisions.



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Energy Efficiency and Economic Growth 1975-2005





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Thank You!

